

WHAT IS CLAIMED IS:

1. A shaving razor including a cartridge and a handle, the shaving razor comprising:
 - a cartridge housing having a front edge, a rear edge and two side edges extending from the front to the rear edge;
 - one or more shaving blades between the front edge and the rear edge of the cartridge housing;
 - a connecting member connected to the cartridge housing and including a deflectable element defining at least a portion of an opening extending through the connecting member; and
 - the handle including a handle interconnect member including protrusion having an enlarged distal end and angled side surfaces extending from the distal end to a base, the enlarged distal end of the protrusion having a dimension greater than a dimension of the opening such that inserting the protrusion into the opening deflects the deflectable element to secure the connecting member to the handle interconnect member.
2. The shaving razor of claim 1, wherein the connecting member includes opposing deflectable elements defining at least a portion of the opening extending through the connecting member.
3. The shaving razor of claim 1, wherein the angled side surfaces have a projected apex angle of between about 45 and 60 degrees.
4. The shaving razor of claim 3, wherein the angled side surfaces have a projected apex angle of about 52 degrees.
5. The shaving razor of claim 1 comprising a plunger extending through an opening defined by the handle interconnect member and extending through the protrusion, the plunger configured to contact a surface of the cartridge housing.

6. The shaving razor of claim 5, wherein the connecting member provides pivot structure defining a pivot axis for pivoting of the housing with respect to the connecting member.
7. The shaving razor of claim 6, wherein the plunger contacts the housing a horizontal distance of no less than least about 0.8 mm from the pivot axis.
8. The shaving razor of claim 6, wherein the pivot axis is located between the front edge and the one or more shaving blades.
9. The shaving razor of claim 5, wherein the plunger is spring-biased in a direction toward the cartridge housing.
10. The shaving razor of claim 1 comprising a movable pusher, the handle interconnect member including an aperture for slidably receiving the pusher.
11. The shaving razor of claim 10, wherein the aperture is spaced from the protrusion.
12. The shaving razor of claim 10, wherein the pusher, in an extended position, is configured to contact the connecting member to disengage the connecting member and the handle interconnecting member.
13. The shaving razor of claim 12, wherein the pusher is configured to contact the deflectable element to disengage the deflectable element from the side surface of the protrusion.
14. The shaving razor of claim 10, wherein the pusher is spring-biased away from the connecting member.

15. The shaving razor of claim 10, wherein the pusher is formed by an arm extending from an ejector button.
16. The shaving razor of claim 15, wherein the ejector button comprises a button substrate, the pusher arm extending integrally from the button substrate.
17. The shaving razor of claim 15 wherein the pusher comprises a pair of arms.
18. The shaving razor of claim 15, wherein the ejector button is spring-biased.
19. The shaving razor of claim 1 further comprising a trimming assembly connected to the housing.
20. The shaving razor of claim 19, wherein the trimming assembly comprises a trimming blade.
21. A shaving assembly comprising:
 - a housing having a front edge and a rear edge;
 - one or more shaving blades between the front edge and the rear edge of the housing;
 - a trimming assembly including a trimming blade, the trimming assembly connected to the housing; and
 - a connecting member configured to releasably connect the housing to a razor handle.
22. The shaving assembly of claim 21, wherein the connecting member configured such that the trimming blade can be guided along a skin surface using the handle for a trimming operation.

23. The shaving assembly of claim 21, wherein the connecting member is connected to the housing, the connecting member including a deflectable element defining at least a portion of an opening extending through the connecting member.

24. The shaving assembly of claim 23, wherein the connecting member includes a pair of deflectable elements defining at least a portion of the opening.

25. The shaving assembly of claim 23, wherein the handle comprises a handle interconnect member including a protrusion sized to be received by the opening.

26. The shaving assembly of claim 25, wherein the protrusion has an enlarged distal end and angled side surfaces extending from the distal end to a base, the enlarged distal end of the protrusion having a dimension greater than a dimension of the opening such that inserting the protrusion into the opening deflects the deflectable element to secure the connecting member to the handle interconnect member.

27. The shaving assembly of claim 26, wherein the angled side surfaces have a projected apex angle of between about 45 and 60 degrees.

28. The shaving assembly of claim 26, wherein the angled side surfaces have a projected apex angle of about 52 degrees.

29. The shaving assembly of claim 26 comprising a movable pusher configured to disengage the connecting member and the handle interconnect member.

30. The shaving assembly of claim 29, wherein the pusher, in an extended position, is configured to contact the connecting member to disengage the connecting member and the handle interconnecting member.

31. The shaving assembly of claim 30, wherein the pusher is configured to contact the deflectable elements to disengage the deflectable element from the side surface of the protrusion.

32. The shaving assembly of claim 25, wherein the connecting member provides pivot structure defining a pivot axis for pivoting of the housing with respect to the connecting member.

33. The shaving assembly of claim 32 comprising a plunger extending through an opening defined by the handle interconnect member and extending through the protrusion, the plunger configured to contact a surface of the cartridge housing.

34. The shaving assembly of claim 33, wherein the plunger contacts the housing cartridge a horizontal distance of at least about 0.8 mm from the pivot axis.

35. A shaving razor comprising:
a connecting member;
a cartridge housing pivotally connected to the connecting member, the housing and connecting member including pivot structure forming a pivot axis to allow rotation of the cartridge housing relative to the connecting member, the cartridge housing having a front edge and a rear edge and including a cam surface;
one or more shaving blades between the front edge and the rear edge of the cartridge housing; and
a handle connected to the connecting member, the handle comprising a plunger biased toward the cartridge housing,
wherein the plunger contacts the cam surface a horizontal distance of no less than about 0.8 mm from the pivot axis.

36. The shaving razor of claim 35, wherein the plunger contacts the cam surface a direct distance from the pivot axis of at least about 2.5 mm.

37. The shaving razor of claim 35 or 36, wherein the one or more blades are located at a rear portion of the cartridge housing, the rear portion defined between the pivot axis and the rear edge of the cartridge housing.

38. The shaving razor of claim 35, wherein the horizontal distance varies as the housing is rotated relative to the connecting member.

39. The shaving razor of claim 38, wherein the horizontal distance varies from a minimum distance of about 0.8 mm or more to a maximum distance of about 3.5 mm or less.

40. The shaving razor of claim 35 or 39, wherein a direct distance of a point of contact between the plunger and the cam surface from the pivot axis varies from a minimum distance of about 3 mm or more to a maximum distance of about 5 mm or less.

41. The shaving razor of claim 35 further comprising a trimming assembly connected to the housing.

42. The shaving razor of claim 41, wherein the trimming assembly comprises a trimming blade.

43. The shaving razor of claim 35 further comprising an elastomeric member secured to the housing assembly.

44. The shaving razor of claim 43, wherein the elastomeric member includes a fin.

45. The shaving razor of claim 35 comprising a clip configured to retain the one or more blades on the housing.

46. The shaving razor of claim 45, wherein a leg of the clip is received by an aperture formed by the housing and located between the front and rear edges.

47. The shaving razor of claim 35, wherein the plunger applies a biasing force to the housing to achieve a torque at the pivot axis of at least about 1.5 N-mm.

48. The shaving razor of claim 35, wherein the plunger applies a biasing force to the housing to achieve a torque at the pivot axis of between about 1.5 N-mm and 6 N-mm.

49. The shaving razor of claim 35, wherein the plunger applies a biasing force to the housing to achieve a torque at the pivot axis of about 3.5 N-mm.

50. The shaving razor of claim 35, wherein the handle is permanently connected to the cartridge.

51. The shaving razor of claim 35, wherein the handle is releasably attached to the housing.